GARMIN

Rino® 520/530

2-way radio & GPS

owner's manual

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Garmin International, Inc.
1200 East 151st Street
Olathe, Kansas 66062, U.S.A.
Tel. 913/397.8200 or 800/800.1020
Fax 913/397.8282

Garmin (Europe) Ltd.
Unit 5, The Quadrangle
Abbey Park Industrial Estate
Romsey, SO51 9DL, U.K.
Tel.+44 (0) 870.8501241 (outside the UK)
0808 2380000 (within the UK)
Fax 44/0870.8501251

Garmin Corporation
No. 68, Jangshu 2nd Road
Shijr, Taipei County, Taiwan
Tel. 886/2.2642.9199
Fax 886/2.2642.9099

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Introduction

Thank you for choosing the Garmin® Rino® 520 or the Rino® 530 (**R**adio **I**ntegrated with **N**avigation for the **O**utdoors). To get the most from your new Rino 520 or Rino 530, read through the *Quick Start Guide* first, then this *Owner's Manual* to understand all of the operating features.

The *Quick Start Guide* describes the process of navigating the Main Pages and the Option Menus, along with some basic unit operations to familiarize you with your new Rino 520/530 right out of the box. Read the *Quick Start Guide* first.

This manual is organized into the following sections:

The **Introduction** section provides FCC, safety, warranty, and product registration information, as well as the Table of Contents.

The **Getting Started** section provides basic information about the Rino 520/530.

The **Unit Operation** section provides information on each of the Main Pages, listed in the same order as viewed on the unit. The section for each page provides an overview that describes how it functions, and step-by-step instructions for using the page and its features. It also includes an overview of some additional features and step-by-step instructions for using those features.

The **Appendix** includes additional information about the Rino 520/530

The **Index** provides keywords and the pages on which they appear.

Note that: Significant differences between the Rino 520 and Rino 530 features are noted throughout the *Quick Start Guide* and the *Owner's Manual*. The Rino 530 contains all of the features of the Rino 520 with the addition of a seven channel NOAA weather receiver with weather alert, an electronic compass, and barometric pressure altimeter.

Warnings and Cautions

The GPS system is operated by the United States government which is solely responsible for its accuracy and maintenance. The system is subject to changes which could affect the accuracy and performance of all GPS equipment. Although the Garmin Rino 520/530 is a precision electronic NAVigation AID (NAVAID), any NAVAID can be misused or misinterpreted and, therefore, become unsafe.

The electronic chart is an aid to navigation and is designed to facilitate the use of authorized government charts, not replace them. Only official government charts and notices to mariners contain all information needed for safe navigation—and, as always, the user is responsible for their prudent use.

Use the Rino 520/530 at your own risk. To reduce the risk of unsafe operation, carefully review and understand all aspects of this *Owner's Manual*. When in actual use, carefully compare indications from the Rino 520/530 to all available navigation sources, including the information from other NAVAIDs, visual sightings, charts, etc. For safety, always resolve any discrepancies before continuing navigation.

WARNING: The Rino 520/530 contains a lithium-ion rechargeable battery pack. The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 140°F (60°C), or incinerate.

WARNING: If the original battery pack must be replaced, dispose of the used battery properly. Contact your local waste disposal department for information on proper disposal of lithium-ion batteries. Keep used batteries away from children. Do not disassemble or dispose of batteries in fire.

MAP DATA INFORMATION: One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify (as required) in product literature and copyright messages displayed to the consumer. Virtually all data sources contain inaccurate or incomplete data to some degree. This is particularly true outside the United States, where complete and accurate digital data is either not available or prohibitively expensive.

CAUTION: IT IS THE USER'S RESPONSIBILITY TO USE THIS PRODUCT PRUDENTLY. THIS PRODUCT IS INTENDED TO BE USED ONLY AS A NAVIGATIONAL AID AND MUST NOT BE USED FOR ANY PURPOSE REQUIRING PRECISE MEASUREMENT OF DIRECTION, DISTANCE, LOCATION, OR TOPOGRAPHY.

IMPORTANT: READ THIS INFORMATION BEFORE USING YOUR RINO:

Exposure to Radio Frequency Signals—Your wireless handheld radio is a low power radio transmitter and receiver. When it is on, it receives and also sends out radio frequency (RF) signals. In August 1996, The Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless radios. Those guidelines are consistent with safety standards previously set by both U.S. and international standards bodies: American National Standards Institute (ANSI) IEEE. C95.1-1992; National Council on Radiation Protection and Measurements (NCRP) Report 86; International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996. Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 130 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1). The design of your radio complies with the FCC guidelines (and those standards).

For body-worn and face-held operation, this radio demonstrates compliance and meets the FCC RF exposure guidelines for uncontrolled exposure (general population) when used with approved accessories supplied with or designed for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

Antenna Care—Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations. **Do not use any radio that has a damaged antenna, because if it comes into contact with your skin, a minor burn can result.**

Electronic Devices—Most modern electronic equipment is shielded from RF signals. However, certain equipment may not be shielded against the RF signals from your wireless radio.

Pacemakers—The Health Industry Manufacturers Association recommends that a minimum separation of six inches (6”) be maintained between a handheld wireless radio and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should ALWAYS keep the radio more than six inches from their pacemaker when the radio is turned on, should not carry the radio in a breast pocket, should use the ear opposite

the pacemaker to minimize the potential for interference, and should turn the radio off immediately if you have any reason to suspect that interference is taking place.

Hearing Aids—Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices—If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your radio OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles—RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities—Turn your radio OFF in any facility where posted notices so require.

Commercial Aircraft—Many commercial airlines prohibit the use of FRS/GMRS radios on board. Switch OFF your radio before boarding an aircraft or check the airline rules.

Blasting Areas—To avoid interfering with blasting operations, turn your radio OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

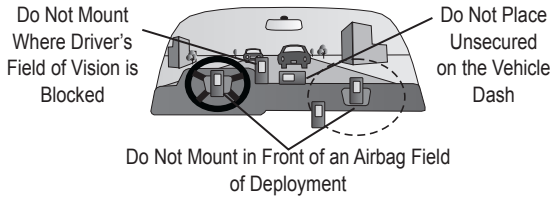
Potentially Explosive Atmospheres—Turn your radio OFF and do not remove your battery when you are in any area with a potentially explosive atmosphere. Obey all signs and instructions. Sparks from your battery in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always clearly marked. They include fueling areas such as gasoline stations, below deck on boats, fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

WARNING: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our Web site at http://www.garmin.com/prop65.

Because the Garmin Rino 520/530 can be used for vehicular navigation, important safety considerations must be followed. Please read and observe the following instructions.

WARNING: For use in vehicles, it is the sole responsibility of the owner/operator of a vehicle with the Rino 520/530 installed to place and secure the device so it will not interfere with the vehicle operating controls and safety devices, obstruct the driver's view of driving conditions, or cause personal injury in the event of an accident.



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Getting to Know Your Rino 520/530

The Rino 520/530 (**R**adio **I**ntegrated with **N**avigation for the **O**utdoors) is a FRS/GMRS radio with a 12 channel GPS receiver. It has integrated radio functionality to provide two-way communications for up to two miles using FRS (Family Radio Service) channels. The Rino 520/530 also provides 15 high-performance GMRS (General Mobile Radio Service) channels and 8 GMRS repeater channels (U.S. versions only) for communication up to 14 miles. GMRS channels are limited to 2 watts of power when used in Canada. GMRS repeater channels are not approved for use by the Canadian government, so they are disabled on Rino 520/530 units sold in Canada.

The Rino 520/530 has three user-selectable GMRS power levels: 0.5 W, 2.0 W, and 5.0 W (USA only). Keep in mind that FRS channels only transmit at 0.5 W. The Rino 520/530 also has a rechargeable lithium-ion battery pack with charger. Be certain to fully charge the lithium-ion battery while attached to the Rino 520/530 prior to the first use to ensure accurate battery capacity reporting. Follow the charging instructions contained in the Rino Quick Start Guide

If you wish, you can purchase a spare lithium-ion battery pack or an optional alkaline battery pack with transmit power limited to 2.0 W.

The unit contains built-in cartography of a North American basemap that includes Interstate and State Highways and Exit Information. The Rino uses compatible MapSource®map data software (not included). The Rino 520/530 can display up to 56 MB of a variety of detailed map data. Some of the mapping options that are compatible with the Rino 520/530 include City Select, MetroGuide, Topo, Fishing Hot Spots, and BlueChart® data. Check your local dealer or the Garmin Web site (www.garmin.com) for a complete listing of MapSource products.

The Rino 520/530 is waterproof to IPX7 standards and is designed for rugged use. Garmin's user-friendly interface allows you to start navigating almost immediately.

Front of the Rino 520/530

Power button:
- Press and hold to turn the unit On/Off
- Press to adjust contrast and backlighting

Call button:
- Press to send out Call Tone
- Sends position when released (if enabled)

Talk button:
- Press and hold to talk
- Sends position when released (if enabled)

Page/Quit button:
- Press to cycle through main pages
- Used to quit or escape menu items

Volume (V) button:
- Press to open volume/squelch control
- Press and hold to mute/unmute the speaker

Speaker

TFT Display

Thumb Stick
- Press In to enter highlighted options and to confirm messages
- Move Up, Down, Right or Left to move through lists, highlight fields, on-screen buttons, icons, enter data, or move the map panning arrow

- Press In and hold to display Shortcuts Menu.

Zoom/Map (Z) button:
- From the Map Page, press to open Zoom control window
- From any other page, press to display Map Page and press again to open Zoom control
- Press and hold to turn the electronic compass On/Off (Rino 530 only)

Microphone:
- Hold unit 3-4 inches away when talking

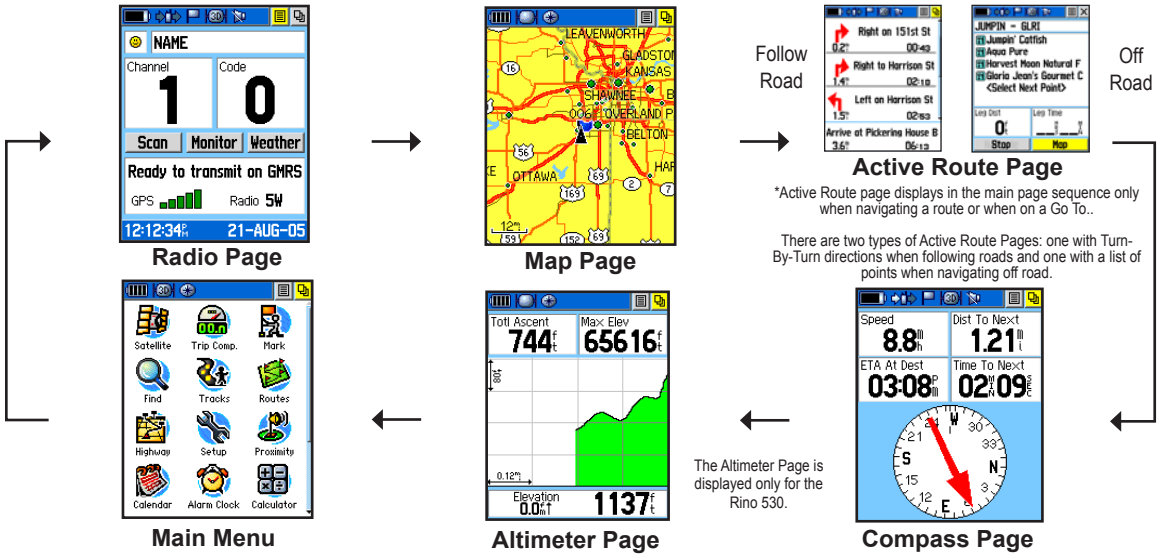
Back of the Rino 520/530

Lithium-Ion Battery Information

- Completely charge with the battery attached to the Rino prior to use to ensure accurate capacity reporting. Refer to the Quick Start Guide.
- Avoid prolonged exposure to direct sunlight and high temperatures as this can reduce useful battery life. See “Specifications”
- Do not store a fully discharged battery for long periods of time. This may prevent the battery from recharging.
- See the section on Warnings and Precautions for instructions on proper disposal of batteries no longer capable of being recharged.
- If the battery capacity gauge becomes inaccurate; fully discharge the battery by leaving the unit On, in normal mode, until it shuts off. Then fully charge the battery while attached to the unit.

Main Display Pages

All of the information you need to operate the Rino 520/530 can be found on five default main pages (four for the Rino 520). Simply press and release the **Page/Quit** button to cycle through the Radio Page, Map Page, Active Route Page*, Compass Page, Altimeter Page (Rino 530 only), and Main Menu Page. You can also access the Main Pages by pressing the on-screen Main Page button . Customize the Main Page sequence by using the Page Sequence Setup (see page 78).

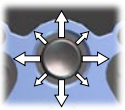


Operating the Rino 520/530

For best results, you should initialize the GPS receiver in your Rino 520/530 unit before you use it the first time. See page 7 for instructions on initializing the unit. The compass and altimeter contained in the Rino 530 should also be calibrated. Refer to the "Calibrating the Compass" and "Calibrating the Altimeter" sections.

To use the Thumb Stick:

- Press In to enter highlighted options and to confirm messages.
- Move Up, Down, Right or Left to move through lists, highlight fields, on-screen buttons, icons, enter data, or move the map panning arrow.



- Press In and hold to display Shortcuts Menu.

To use the Page Option Menu:

1. Highlight the **Option Menu** on-screen button at the top of the display screen and then press the **Thumb Stick** In to open the menu.
2. Highlight the desired menu option and press the **Thumb Stick** In to activate the option.
3. To close without making a selection, move the **Thumb Stick** to the Right.

To Close a feature or setting page:

1. Highlight the **Close** button at the top of the page and press the**Thumb Stick** In to return to the previous page, or press the **Page/Quit** button.

Shortcuts Menu

The Shortcuts Menu, accessed by holding the **Thumb Stick** In, provides quick access to frequently used features and the Lock Keys option.

To lock/unlock the buttons (keys):

1. Press and hold the **Thumb Stick** In to access the Shortcuts Menu. Highlight **Lock Keys** and press the **Thumb Stick** In. Only the **Call** and the **Press To Talk** buttons are functional.
2. To unlock, press and hold the **Page/Quit** button until "Keylock Disabled" is displayed (about 5 seconds).

Status Bar Overview

As you move around any of the Main Pages, the current page's title briefly displays (3 seconds) and then is replaced by the Status Bar. The Status Bar displays current settings and operational icons and contains the Main Page and Page Option Menu buttons.

The available icons are:

- Battery Level
- Using External Power
- Receiving Radio signal
- Transmitting Radio signal
- Radio On
- Peer-To-Peer On/Location Ready to Send
- Keylock On
- Alarm Clock On
- GPS On, 3D Position Fix
- Speaker Muted
- Weather Alert On (Rino 530 only)

You can adjust the backlight level by pressing the POWER key and releasing, then tap the **POWER** key or press the Thumb Stick Up/Down to cycle through the levels of backlight adjustment. See page 77 for information on changing the display colors and backlight timeout and brightness levels. Backlighting is Off when you power up the unit. When On, it uses a significant amount of battery power.

Pop-Up Messages

Whenever a significant event in the operation of the unit occurs, an on-screen message displays to advise you of the occurrence. In each case, the condition is described and often a remedy provided. Pressing the Thumb Stick acknowledges the message and closes the window.

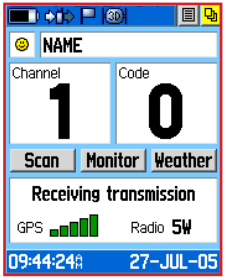
On-Screen Message

Unit Operation

Radio Page

The Radio Page is the first of the default Main Pages. This page provides the user interface for FRS (Family Radio Service) and GMRS (General Mobile Radio Service) radio operations. Garmin Rino units work with third party FRS/GMRS radios using standard FRS/GMRS frequencies. To take advantage of all of the Rino features, communication with other Rinos is necessary.

The Radio Page also provides access to the Weather Radio (available in Rino 530 only), which provides a constant update of current weather conditions by receiving NOAA weather broadcasts for your area. The Weather Alert feature further enhances the Weather Radio by automatically notifying you of any weather alerts, even when the Weather Radio is not is use and the FRS/GMRS radio is not transmitting or receiving an audio transmission. These features are helpful while outdoors or planning any trips or activities.



Radio Page

Initializing the Rino 520/530

To take full advantage of the Rino 520/530 features, the GPS receiver must be initialized. The initialization process allows the Rino 520/530 to receive and store satellite information and begin using the satellites for navigation. Initialization is automatic and should only take a few minutes. If this is the first time the unit is used or if you have moved more than 600 miles from your last used location, initialization may take up to 5 minutes.

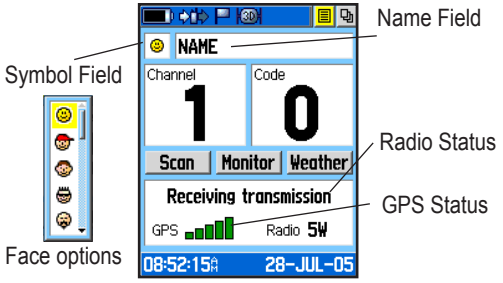
To initialize the unit:

1. Take the Rino 520/530 outside where there is an unobstructed view of the sky and turn it on.
2. The unit begins to search for satellite signals. A Satellite Signal graph is displayed on the Radio page or you can get more detailed information by accessing the Satellite Page from the Main Menu.
3. The first time you initialize your Rino it could take up to five minutes. When the GPS is initialized and ready for navigation, three or more green GPS signal bars are displayed.

If for some reason the unit is not able to gather the necessary satellite information, refer to the GPS Trouble-shooting Chart in the Appendix.

Using Name and Symbol Fields

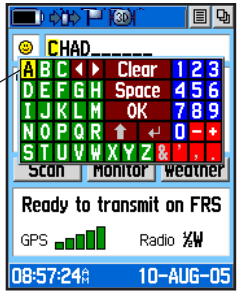
The **Name** field allows you to enter a name that appears on other Rino units as you communicate with them. You may enter a name using a combination of up to 10 letters, numbers, or spaces. The **Symbol** field allows you to choose a face icon from a list to further personalize your identity.



To enter a name:

1. Using the **Thumb Stick**, highlight the **Name** field. Press the **Thumb Stick** In to activate the field and display the keyboard.
2. Move the **Thumb Stick** Up, Down, Left, or Right to highlight the **Clear** field, then press the **Thumb Stick** In to clear the default **Name**.
3. To enter a new name, use the **Thumb Stick** to move the cursor to the desired character (letter, number, or a space). Press the **Thumb Stick** In to select that highlighted character. Choose **Back** to delete the character to the left of the cursor. You may enter up to 10 characters for your name.

Entering a name with the on-screen keyboard

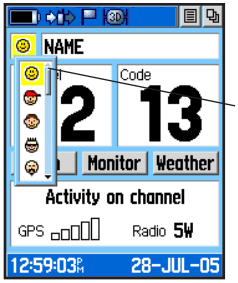


4. When you have entered your new name, use the **Thumb Stick** to highlight **OK** and then press the **Thumb Stick** In.

To change the user symbol:

1. Using the **Thumb Stick**, highlight the face symbol on the left of the Name field. Press the **Thumb Stick** In to show a list of available face icons.
2. Move the **Thumb Stick** Up or Down to scroll through the selections. Because not all the selections can fit in the window, a slider bar on the right side indicates your current position in the list.

Changing the user symbol



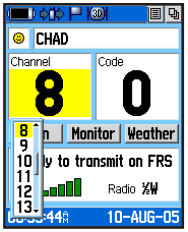
TIP: Hold the Thumb Stick Up or Down to scroll through the list more quickly. Once you reach the end of the list, you can wrap back to the top or bottom by releasing the Thumb Stick then pressing in the same direction again. This same method may also be used on other selection windows.

3. Once you have highlighted the desired icon, press the **Thumb Stick** In to change the symbol.

Setting the Channel and Code

The Rino 520/530 has a total of 22 channels (not including GMRS repeater channels) and 38 codes to select from using the Channel and Code fields. Channels 1–7 and 15-22 are GMRS channels, 8-14 are FRS channels, and 15R–22R are GMRS repeater channels (repeater channels are available on U.S. units only and are disabled by default). To communicate with other Rino and FRS/GMRS users, you must be on the same channel and code. Garmin Rino units work with 3rd party FRS/GMRS radios, provided the other radios use standard FRS/GMRS frequencies. A chart of Rino frequencies may be found in the "Appendix."

Squelch codes allow you to hear calls from only specific persons. Thirty-eight (38) Codes (called Continuous Tone Controlled Squelch System or CTCSS) allow your Rino 520/530 to ignore unwanted calls from other persons using the same channel. Simply select the same code (number) as selected by the other person(s) with which you plan to communicate.

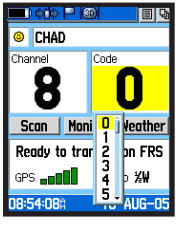


Select from FRS 8–14, GMRS 1-7 & 15–22, and 15R–22R GMRS repeater channels (with Repeater Channels enabled).

NOTE: *Codes do not cause your conversation to be private. They only allow you to filter out other users on the same channel, so you only hear the radios you want to hear. Codes on are not a scrambling system! Refer to the section on Voice Scramble operation.*

Setting the code to 0 (code off) allows you to hear all activity on the selected channel, but you must be set to the same code as the other person(s) to transmit back. See the "Appendix" for a table listing all of the 38 Codes and their frequencies.

As you change channels, the Rino 520/530 remembers the last channel/code combination that you were using. For example, you may set the unit channel to 5 and code to 21, then change the channel to 8 and code to 2. If you change the channel back to 5, the code changes back to its previous setting of 21. See the "Appendix" for more information on FRS/GMRS and its operational aspects.



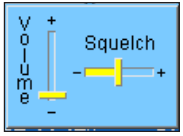
Choose from 38 codes. Setting the unit to zero will allow you to hear all transmissions on that channel, but you must be on the same code to radio back.

To change the Channel and/or Code:

1. Using the Thumb Stick, highlight the **Channel** or **Code** field and then press the **Thumb Stick** In to show a list of available channels/codes.
2. Move the **Thumb Stick** Up or Down to scroll through the selections. Because not all the items fit in the window, a slider bar on the right side indicates your current position in the list.
3. Highlight the selection, press the **Thumb Stick** In.

Adjusting the Volume and Squelch Level:

1. Press the **Volume Control (V)** button to display the Volume/Squelch Level Control window.
2. Move the **Thumb Stick** Up or Down to adjust the volume level.
3. Use the **Thumb Stick** to set the squelch level by moving the slider all the way to the Left to unmute the background noise (weak signals that you don't want to hear). Then slowly move it to the Right until the background noise stops. The squelch is set.



Volume/Squelch Adjustment

Scanning and Monitoring

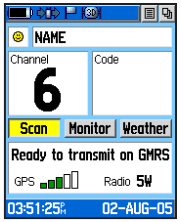
The Scan option allows you to scan through the available channels for activity. As the unit scans and detects activity on a channel, it pauses on that channel/code for a few seconds, then continues scanning. If you transmit at that time you will be on that channel. When the Rino 520/530 is scanning and it receives an incoming signal, the Rino 520/530 automatically decodes the Code used by the incoming signal. The Rino 520/530 then uses that Code when it transmits back to that unit. However, if you transmit when the scan has not paused, the transmission uses the channel set before scanning.

You may use the Set Scanlist option to pick which channels/codes to scan. Scanning through all channels can take time: Selecting only specific channels/codes decreases the scan time and helps prevent the chances of missing a transmission. The Scanlist also has Option Menu choices to Scan Current Codes or Scan All Codes. Choosing Scan Current Codes scans only the Channel and Code combination in memory.

The Monitor option lets you listen to a single channel for all activity, including static and weak signals. The Rino requires the user to adjust the squelch for a frequency to filter out unwanted noise. Using the Monitor option temporarily turns off the squelch, allowing you to hear the open channel. If you see an “Activity...” message, there is activity on your selected channel, but the incoming signal does not match the Code your unit is using. You may choose to monitor a channel if you want to hear all the activity on a channel.

To scan or monitor a channel(s):

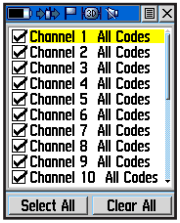
1. Using the Thumb Stick, highlight the **Scan** or **Monitor** button and then press the **Thumb Stick** In. **Scan** starts searching through the available channels. **Monitor** opens the channel to listen to any radio transmissions on that channel.
2. To stop using either option, highlight the button with the **Thumb Stick** and press In.



The Code field is blank when the unit is scanning or monitoring channels until a signal is received and it pauses.

To set up a Scanlist:

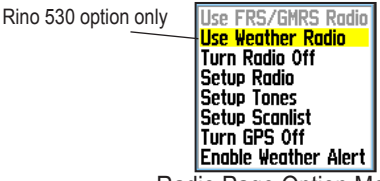
1. Using the Thumb Stick, highlight the **Option Menu** button and press In. Highlight **Setup Scanlist** and press the **Thumb Stick** In.
2. To add/remove a channel from the list, highlight the channel and press the **Thumb Stick** In to add/remove the check mark in front of the name. Only channels that are checked will be scanned.
3. To select all channels or clear all channels, highlight either the **Select All** or **Clear All** buttons and press the **Thumb Stick** In.
4. To Scan Current Codes, highlight the **Option Menu** and press the **Thumb Stick** In. Choose the desired setting and press the **Thumb Stick** In.



Scanlist Page

Radio Page Option Menu

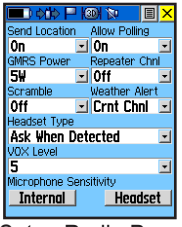
The Radio Page Option Menu allows you to customize aspects of your Rino 520/530, such as setting up the radio, programming call and ring tones, and setting up a scanlist.



Radio Page Option Menu

Setup Radio

The Setup Radio option displays the Radio Setup Page. This page determines how the radio functions and enables you to adjust the radio operation to your needs. The following options are available:



Setup Radio Page

Send Location—Enables/disables the peer-to-peer positioning feature. See the "Peer-to-Peer" section for more on this feature.

Allow Polling—Enables/disables your Rino 520/530's ability to respond to a polling request from another Rino.

GMRS Power—Use this to set the power level used to transmit GMRS channels (1-7, 15-22 and repeater channels 15R-22R, if applicable) 1/2 watt is used for FRS channels 7-15. If the battery is too low to support the higher power levels, it automatically decreases the transmit power and sends a notification message.

Scramble—Adds a level of privacy to your conversations. When On, the voice transmission sounds garbled to other non-scrambled Rino units, as well as other third party radios.

***NOTE:** When Scramble is set to **On**, in order for peer-to-peer and Send Location features to work, the receiving radio must have Scramble enabled also.*

Repeater Channel—Use this option to turn On/Off GMRS repeater channels 15R–22R. Repeater channels use repeaters, when available, to enable communication around obstacles that normally block transmission and can increase tranmission distance. GMRS repeater channels are not available in Rino units sold in Canada.

Weather Alert—When Weather Alert is enabled (See Weather Radio section), the receiver is set to look for weather alert tones either only on the current channel or on all channels .

Headset Type—Allows you to choose which accessory headset or microphone you are using with the unit, or have the unit automatically detect the type. If you use more than one type of headset or microphone, you need to set the unit to **Ask When Detected** before changing accessories.

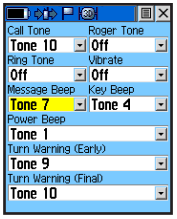
NOTE: *If the headset has a PTT (Push to Talk) button, it must be pressed for the unit to detect the headset.*

VOX Level—Controls the sensitivity level of any Voice Operated Transmission (VOX) accessory. VOX accessories allow you to use the unit hands-free. A lower VOX setting is recommended for quiet environments while a higher VOX setting should be used in noisy environments. Setting the VOX level to 5 is recommended for most environments, but it may be necessary to adjust the level to achieve the desired voice trigger level. You will hear yourself talking in the headset when transmitting successfully using VOX.

Microphone Sensitivity—Allows you to set the sensitivity of the internal microphone and the sensitivity of a headset microphone. When selected, a sensitivity adjustment slider displays. Adjusting the sensitivity requries the assistance of another radio user to advise of the voice quality received while adjusting the slider.

Mic Adjustment Slider

Setup Tones



Setup Tones Page

Call Tone—When the **Call** button is pressed, an attention tone is transmitted. This option allows you to choose one of 10 tones.

Roger Tone—When the **Talk** button is released, a tone is sent to signify the end of the transmission. This option allows you to choose one of four tones, or set the tone to Off.

Ring Tone—When an incoming transmission is received, an attention tone will sound. This option allows you to choose one of 10 tones or set the tone to Off. The Ring tone will not sound again until there has been 45 seconds of radio inactivity.

Vibrate—Choose from On or Off to have the unit vibrate when an incoming transmission is received. Once received, the unit will not vibrate again until there has been 45 seconds of radio inactivity. The unit also vibrates at Power On when set to do so.

Message Beep—Choose from 19 options or Off to have the unit emit a tone when a message or note is received.

Key Beep—Choose from four tones or Off to emit a tone when a key is pressed.

Power Beep—Enable or disable the tone the unit makes when it is turned on and off.

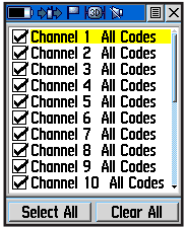
Turn Warning (Early)—Choose from 19 tones or Off to signal an upcoming turn on a route.

Turn Warning (Final)—Choose from 19 tones or Off to signal the final turn on a route.

A "Set Quiet Mode" is available to mute all tones using the Option Menu.

Setup Scanlist

Refer to "Scanning and Monitoring" for complete information about this feature and the options in this page.



Setup Scanlist Page

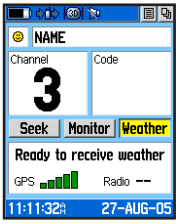
Use Weather Radio

Available for the Rino 530 only, the Weather Radio provides a constant update of the weather conditions. The Weather Alert feature further enhances the Weather Radio by automatically detecting any weather alert tones if you are not actively transmitting or receiving with the radio.

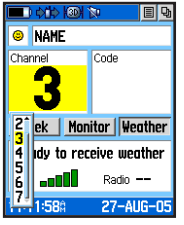
To access the Weather Radio, select the **Weather** button and press the **Thumb Stick** In or select the Radio Page **Option Menu** button. Press the **Thumb Stick** In when **Use Weather Radio** is highlighted to turn on the weather radio. You can also access the Weather Radio through the Shortcuts Menu.

When the Weather Radio is on, a "Ready To Receive Weather" message displays if no signal is present or the squelch is set too high. A "Receiving Weather" message is displayed if weather is being received, if squelch is too low, or monitor is on. The Weather Radio has a separate squelch setting from the FRS/GMRS radio. Refer to Page 11 for instructions on setting the squelch for weather radio.

Change the Weather Radio channel in the same manner as changing the FRS/GMRS radio channel. There are seven Weather Radio channels (1 through 7) available.



Radio Page with Weather Radio On



Changing the Weather Radio Channel

Selecting the "Seek" button increments the radio to the next active weather channel. Selecting the "Monitor" button monitors the selected channel for activity.

Use Weather Alert

When the radio is on, **Enable Weather Alert** is located at the bottom of the Radio Page Option Menu. Press the **Thumb Stick** In when **Enable Weather Alert** is highlighted to turn it on. You can then turn the Weather Radio off and continue FRS/GMRS radio operations.

When a Weather Alert tone is detected, the Rino 520/530 automatically turns on the Weather Radio and broadcasts the Weather Alert if you are not actively transmitting or receiving on the radio. The volume changes to 3/4 the maximum when a Weather Alert is broadcast. Select **Disable Weather Alert** to turn off this feature.

To turn the weather radio off, press the **Thumb Stick** In when **Use FRS/GMRS Radio** is highlighted. This switches the Rino 520/530 back over to the FRS/GMRS radio operation. Weather Alert is disabled whenever the FRS/GMRS and Weather Radio is turned off.

Turn Radio/GPS On/Off

Press the **Thumb Stick** In on either of these two options to toggle them from on to off. For example, to turn GPS Off, press the **Thumb Stick** In when **Turn GPS Off** is highlighted.

Status Window

The Status Window on the bottom half of the Radio Page shows current GPS and radio status, and radio actions. As you operate the unit, the graphics change depending on what actions you are taking and the unit settings.

GPS Status

The GPS signal bars indicate the strength of satellite arrays overhead. More bars mean more satellites in view. As the unit collects satellite information, the satellite signal bars increase to indicate a 3D position fix. The more satellite signal bars, the better your position fix. Three or more green bars are required for GPS navigation.

Radio Transmission/Reception Status

As the radio transmits and receives, a variety of messages appear to indicate the type and status of the transmission or reception.

Radio Page Status Indicators

The Radio Page status bar displays icons and the status window displays messages and icons to describe current operating conditions, depending on what you are doing. See below for explaination of messages and icons.

Message		Radio Status	GPS Status	Status Bar
Activity on channel	A signal is being received, but doesn't match the code.	Radio -- Radio feature Off	GPS Off GPS receiver Off	Radio On
Radio Off	The 2-way Radio is turned Off			Radio Receiving
Ready to transmit on FRS	FRS Channel is selected and you can transmit	Radio ½W Transmit Power at 1/2 watt	GPS Acquiring Satellites	Radio Transmitting
Ready to transmit on GMRS	GMRS Channel is selected and you can transmit		GPS Weakest Signal	Peer-to-peer On Position Ready to transmit
Receiving transmission	You are receiving a transmission on the selected channel	Radio 2W Transmit Power at 2 watts	GPS 2D GPS Location	GPS On - Position Ready
Ready to receive weather	Set to a weather channel and waiting to receive weather broadcast		GPS 3D GPS Location	Weather Alert On
Receiving weather	Receiving a weather broadcast	Radio 5W Transmit Power at 5 watts	GPS 3D GPS Location	
Transmitting on FRS	You are transmitting on an FRS channel		GPS Strongest Signal	
Transmitting on GMRS	You are transmitting on an GMRS channel			
Transmitting position data	Your position (current location) is being sent			

Using the Rino 520/530 Radio Features

Your Rino 520/530 unit provides many features to enhance your radio experience, such as transmitting your location or any location and receiving contact information. This section reviews some of the advanced radio features. Refer to the "Features" section for information on all of the features of the Rino 520/530.

Peer-to-Peer Positioning

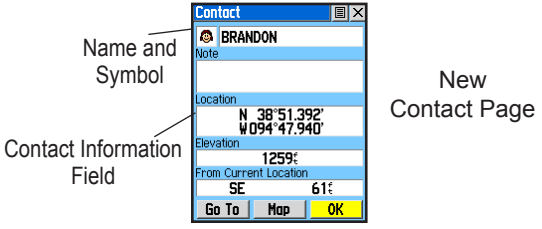
The Rino 520/530's most unique feature is being able to send its location to another Rino, which is called Peer-to-Peer positioning. With peer-to-peer positioning enabled (see the "Setup Radio" section) and a GPS position, whenever you press and release either the **Call** button or the **Talk** button, the Rino 520/530 automatically sends out its location. This information is available to all other Rino users that are monitoring the same channel and squelch code. This feature allows you to track the movement of other Rino users and even navigate to their location. Locations may only be sent once every 30 seconds due to FCC restrictions. Your Rino 520/530 can respond to polling requests from other units more frequently.

To transmit your location to other Rino users:

1. Enable **Send Location** (see "Setup Radio").
2. Press and release either the **Talk** or **Call** button. A bright flag on the Status Bar indicates the unit is ready to transmit its position. A dimmed flag is waiting for the 30 second delay to expire.

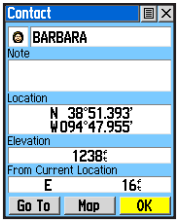
New Contact Page Overview

The first time that a signal is received from another Rino user, a New Contact page is displayed. From the New Contact page you can show their location on your **Map**, **Go To** their location, or select **OK** to add it to the Contact List. Press the **Page/Quit** button to disregard the contact.



The Rino 520/530 can manage up to 50 contacts at any time. Each time you receive a signal from a contact, your map is updated showing their new position. A Track Log of their movement is created and shown on your map (see the "Track Logs" section). After a contact has been established, a "<contact name> Updated" message briefly appears at the bottom of your display each time the contact updates.

All contacts are listed on the Find Contact Page and are also displayed in the Contact Bar on the Map Page (see the "Map Page" section). Contacts behave like waypoints and count towards the 500 maximum waypoint total. If the contact did not have a GPS location on the last transmission, the last known position appears overlayed by a question mark in the Location field. To view the contact details (such as Direction and Distance from Current Location, Elevation, Location, and Notes that have up to 30 characters), use the **Thumb Stick** to move to the next data field to add or change information.



Use the **Thumb Stick** to view or edit different contact data.

To accept a new contact:

1. When a new contact is received, the New Contact page automatically appears.
2. Highlight **OK** and press the **Thumb Stick** In. If you do not select **OK**, the contact is not saved.

To review a contact and contact details:

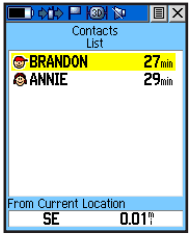
1. From the Map Page, highlight the desired contact on the Contact Bar and press the **Thumb Stick** In. As you highlight the contacts on the Contact Bar, the Map page centers the map on that contact and display its name, direction and distance near the top of the screen.

Or

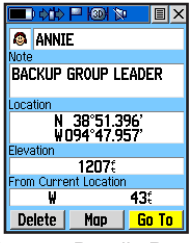
1. Press the **Thumb Stick** In and hold it until the Shortcuts Menu is displayed. Highlight **Find** and press the **Thumb Stick** In.
2. Highlight **Contacts** and press the **Thumb Stick** In.
3. From the Contacts List, select the desired contact and press the **Thumb Stick** In.

To change contact details:

1. The Elevation, Position, and Note fields may be manually edited. Select the desired field and press the **Thumb Stick** In.
2. For Notes, highlight the field and press the **Thumb Stick** In to start entering data, up to 30 characters. For other fields, highlight the field and press the **Thumb Stick** In to start changing the data.
3. Highlight **OK** and press the **Thumb Stick** In when done.



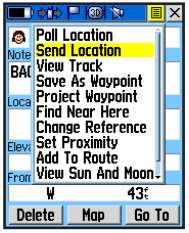
Contacts List



Contact Details Page

Sending a Location

Another feature is the ability to send a specific location to other Rino users. This comes in handy when you are trying to round-up the group or you just want to meet at a specific location. You may send any point found from the Find menu. If the unit needs to wait until 30 seconds have elapsed since the last position transmission, a "Waiting to send location..." message appears until the unit is able to transmit. If a location is sent more than once, a number is automatically added to the end of the name (for example: CAMP, CAMP 1, CAMP 2, etc.).



To send a location, highlight the Option Menu from the Waypoint Review Page, select Send Location, and press In.

To send a location:

1. Press the **Thumb Stick** In and hold it until the Shortcuts Menu is displayed.
2. Highlight **Find** and press the **Thumb Stick** In.
3. Highlight the desired category and press the **Thumb Stick** In. (For the Contacts List, select the desired contact and press the **Thumb Stick** In.)
4. Depending on which category you select, highlight the desired item and press the **Thumb Stick** In to display the Information page for that item.
5. From the Information Page, highlight the **Option Menu** button in the upper right corner of the page and press the **Thumb Stick** In.
6. Highlight **Send Location** and press the **Thumb Stick** In again. The unit now sends the point to the other Rino users on your channel/squelch code.

Map Page

The Map Page displays your present position and direction of movement using a triangular Position Icon that is shown on the map. As you travel the map display leaves a “trail” (track log) of your movements.

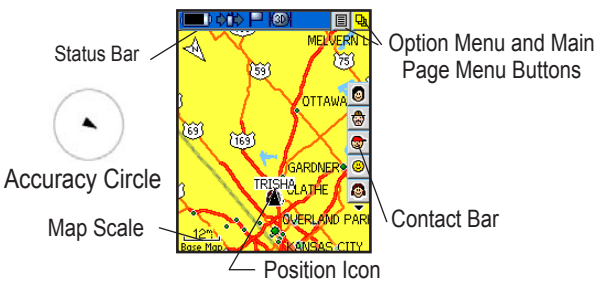
The map displays geographic details such as rivers, lakes, highways, and towns. The map can display a higher level of detail than the basemap provided with the unit (i.e. residential streets, parks, etc.), if Garmin MapSource data has been downloaded to the unit using a CD-ROM mapping program. When using MapSource data, the word “mapsource” displays below the map scale whenever you zoom in to view map details.

At the top of the Map Page, you can choose to show either the Contact Bar, Data Fields, Guidance Text, or only the Map. As you highlight the contacts on the Contact Bar, the Map Page centers the map on that contact and displays its name, direction, and distance.

Highlighting the Contact on the Map Page and pressing the **Call** button polls the contact.

In many instances the map displays an Accuracy Circle surrounding the Position Icon. The Rino 520/530 uses both map resolution and GPS accuracy in defining your location to a point within the circle. The smaller the circle, the more accurate your location.

When using the Pan Map feature (accessed from the Map Page Option Menu), a small outline arrow (Map Pointer) can be moved about the page to highlight and identify map items or to scroll the map to view areas not shown on the display screen.



To view a Contact from the Map Page:

1. Highlight the **Contact** icon using the **Thumb Stick**. As you highlight the contacts on the Contact Bar, the Map page centers the map on that contact and displays its name, direction, and distance near the top of the screen.
2. Press the **Thumb Stick** In to view the details of the Contact.
3. Press the **Thumb Stick** to the Left or Right to re-center the map on your current position.

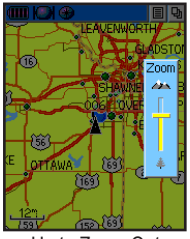
The scale can be changed from 20 feet to 500 miles. A lower zoom scale displays less area but more map detail, while a higher zoom scale shows you a larger area with less map detail. The **Thumb Stick** and **Z** (Zoom) button on the front right of the unit allow you to zoom in and out on the map. Press the **Z** (Zoom) button from any page (other than the Map Page) to open the Map Page.

To change scales on the Map Page:

1. Press the **Z** (Zoom) button to open the Zoom window.
2. Use the **Thumb Stick** and **Z** (Zoom) button to change the map scale in order to show more map area with less detail or less map area with more detail.

   Press and hold Up or Down on the **Thumb Stick** to zoom the map scale rapidly. Press the **Thumb Stick** In or to any direction to close the Zoom window.

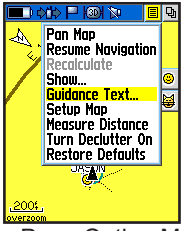
The map scale in the lower left hand side of the display is shown in units of measurement selected in the Units field of the Unit Setup Page (accessed through the Main Menu Setup Page). If you zoom in so far that the resolution of the map data is exceeded and the appearance of the map is no longer accurate, the word, “overzoom” displays just below the map scale.



Up to Zoom Out;
Down to Zoom In

Map Page Options

Map Page options allow a variety of operating and custom features for your Rino 520/530. The Map Page options are:



Map Page Option Menu

Pan Map—Allows you to move the Panning Arrow (Map Pointer) about on the map. Refer to the "Using the Pan Map Option" section for complete instructions.

Stop Navigation—Quits navigation of a Go To, Route or Track in progress. When you are not navigating to a destination, the Stop Navigation option is "grayed out" and is non-functional.

Recalculate—Recalculates the current route.

Show... Data Fields—Displays two, three, or four navigation data fields, Map Only, and Contacts. Data fields can be programmed to display various data options.

Guidance Text—Displays guidance information such as direction to turn at the next intersection, etc. It can be set for Always Show, Never Show, or Show When Navigating.

Setup Map—Displays the Setup Map Pages, which allow you to tailor the map to your requirements such as changing text size, map orientation, and map detail. Refer to the "Setting up the Map" section for complete instructions.

Measure Distance—Displays the distance from one point on the map to another.

Turn Declutter On—Turns the Declutter feature on to reduce the amount of map details when zoomed out.

Restore Defaults—Returns the Map Page to the original factory settings (defaults).

Using the Pan Map Option

The Map Page pan function allows you to display an arrow used to point at and identify items on the map, and to move the map in order to view areas beyond the current viewing area on the display.

The map panning function is activated from the Option Menu on the Map Page. Use the **Thumb Stick** to move the panning arrow (also referred to as the map pointer) in the desired direction. If the arrow moves to the edge of the map display, the map also moves to reveal more area.

Whenever you place the panning arrow on a map item, the name of that item is highlighted. This feature applies to waypoints, roads, lakes, rivers; nearly everything that is displayed.

Press the **Thumb Stick** In to mark the arrow location or display the map item information page. The Option Menu allows you to: send the location of that item, project a waypoint from it, save it as a waypoint, set a proximity circle around it, add it to a route, or view the Sun & Moon phase or view Hunt & Fish information from it.

On-screen buttons at the bottom of the page allow you to Go To the map item, display it on the map or to select **OK** and return to the Map Page. Press the **Page/Quit** button to stop panning the map.

To Find an item near the map pointer:

1. When using the panning arrow, press and hold the **Thumb Stick** In to display the Shortcuts Menu.
2. Select **Find** to display items. Select the category you wish to search (waypoints, contacts, etc.). The Rino 520/530 then searches for the items nearest the location of the map pointer instead of your actual location.

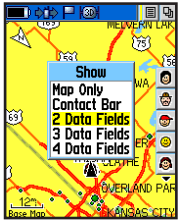
Map Page with Panning Arrow

Programming the Data Fields

Select **Show... Data Fields** to view from two, three, or four optional Data Fields at the top of the screen that can be programmed to provide a variety of travel and navigation information. A list of the choices is shown to the right. Not all data types are available on every page.

To program a data field:

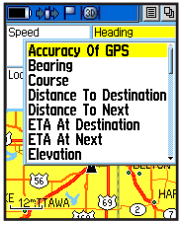
1. Use the **Thumb Stick** to highlight the data field and then press In to display the list of data options.
2. Highlight the desired option and then press the **Thumb Stick** In to change the data field type.



Selecting Data Fields

Data Field Options

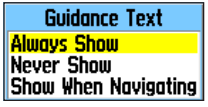
Thee data field options apply to the Map Page data fields and the Trip Computer data fields. For definitions of all data fields used in the Rino 520/530, refer to the "Appendix."



Changing Data Fields

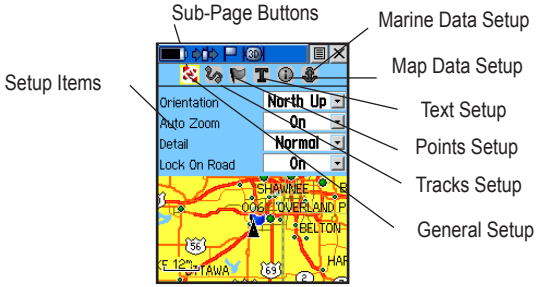
Guidance text

The Guidance Text option displays upcoming intersections, points, or direction to navigate. The three options are: Always Show, Never Show, and Show When Navigating.



Setting up the Map

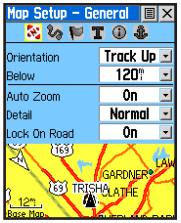
The Setup Map option displays the five Map Setup Pages, each accessed by an on-screen button.



To use Map Setup options:

1. Select **Setup Map** from the Options Menu and then press the **Thumb Stick** In to display the Map Setup Page.
2. Press Right or Left on the **Thumb Stick** to highlight the desired sub-page button, which displays the options for that sub-page.
3. Press Up or Down on the **Thumb Stick** to highlight an item on the list. Press Right to return to the sub-page buttons.
5. Use the **Thumb Stick** to highlight the desired option and then press it In to activate.
6. Press the **Page/Quit** button or the **Close** button to return to the Map Page.

General Setup



Orientation—Track Up or North Up; fixes the top of the map display to the current track heading or to a north heading.

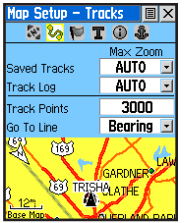
Below—Sets the map scale at which Track Up displays. Above that scale the map reverts to North Up.

Auto Zoom—On or Off; automatically scales the map to display both your current location and the next point to which you are navigating.

Detail—Most, More, Normal, Less, or Least; controls how much map detail you see. This setting only applies to a map feature set to Auto. Those features which have a specified scale or are turned Off are unaffected by this setting.

Lock on Road—On or Off; available only if MapSource Data is loaded. When On, the triangle icon locks to the road that you are traveling.

Tracks Setup

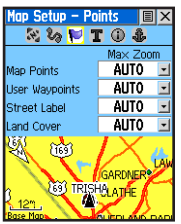


Saved Tracks and Track Log—Scale options; Off, Auto, or 20 ft–500 miles, sets the maximum scale at which the feature should appear on the screen. Some types of data display only at certain zoom scales.

Track Points—Select the number of track points per track. Up to 10,000 active Track Points allowed

Go To Line—Bearing to or Course line displayed on a Go To route.

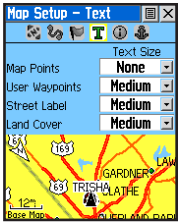
Map Points Setup



Map Points, User Waypoints, Street Label, and Land Cover—Off, Auto, or 20 ft–500 miles, sets the maximum scale at which that feature should appear on the screen. Some types of data display only at specific zoom scales.

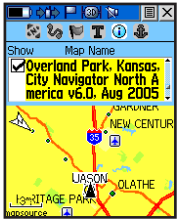
Text Setup

Map Points, user Waypoints, Street Label, and Land Cover—None, Small, Medium, or Large; control the screen size of the name.



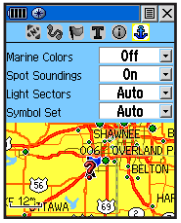
Map Information Setup

Show—Check box; check mark determines if map data is used or not. Option Menu allows you to choose to show all, show none, or show specific MapSource Data. See also the "Appendix."



Marine Setup

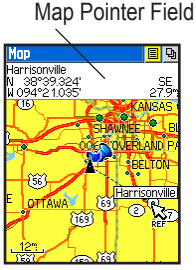
Show—Options for categories are On, Off, and Auto.



Measuring Distance

To use the Measure Distance option:

1. Select **Measure Distance** from the Option Menu and then press the **Thumb Stick** In to display the Panning Arrow. **Ref** displays under the arrow.
2. Use the **Thumb Stick** to move about on the Map Page until you reach the point to which you want to measure. A new Map Pointer field displays showing the location of the pointer and the direction and distance from where you began the measuring.
3. To begin measuring from a different point, press the **Thumb Stick** In at the desired location.
4. To stop measuring, press the **Page/Quit** button.



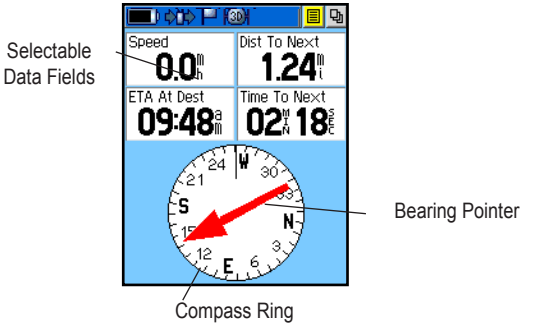
Measuring distance

Compass Page

The Compass Page provides active guidance with a rotating compass ring that shows your course (heading) while you are moving and a bearing pointer to indicate the current direction to your destination (bearing) relative to the course.

The Data Fields at the top of the page provide you with navigation information. The list of data field choices and definitions may be found in the "Appendix."

The Compass Ring functions as a magnetic compass when you are stationary (Rino 530 only). When you are moving, the heading is controlled by the GPS receiver (based upon settings customized in the Heading Setup Page).



NOTE: *The Compass on the Rino 530 must be calibrated for the greatest accuracy. Refer to page 36 for information on calibrating the compass.*

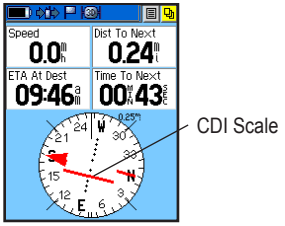
Using the Compass Page

The two main components of the Compass Page are the Bearing Pointer and Compass Ring. The Bearing Pointer always points directly to the destination, no matter what your current location might be. The Compass Ring displays your heading.

While you are navigating a route, the bearing pointer indicates the direction (a bent arrow) of the turn to the next point in the route as well as the direction to the current point when you get within 15 seconds Estimated Time of Arrival of the current point.

For example, if the arrow is pointing straight up, you are going directly to your destination. If it points any direction other than up, turn and move towards the direction the arrow is pointing until it points up, and then continue in that direction. If you are using the Course Pointer option instead and you drift away from the original line of travel to your destination, the Course Deviation Indicator (CDI) provides graphic indication of drift (right or left) and displays the distance off course.

When you are not on an active GoTo, Track, or Route (in other words, not traveling to a recorded destination), the Compass Ring displays your heading while you are moving, but the data fields at the top of the page will not display any destination related data, such as Estimated Time of Arrival.



Compass Page with Course Pointer and Course Deviation Indicator (CDI) Scale active.

To stop navigating:

1. Highlight the **Option Menu** button at the top of the Compass, Highway, or Map Page and press the **Thumb Stick** In.
2. Select **Stop Navigation**, then press the **Thumb Stick** In.

Compass Page Options

Sight 'N Go—Use the Sight 'N Go feature to locate a landmark visually and then lock in a magnetic heading to it. Rino 530 feature only.

Stop Navigation/Resume Navigation—Cancels/resumes navigation ("Grayed out" or disabled unless you are navigating on a Go To, Track, or Route.)

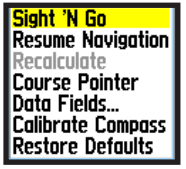
Recalculate—Recalculates the active route.

Bearing Pointer/Course Pointer—Toggles between Bearing (always directed toward your destination) and Course (shows amount of correction needed to get back on course.)

Show Data Fields—Toggles to display data fields on the right side of the display or removing the data fields

Calibrate Compass—Calibrates the electronic compass. Follow the on-screen instructions. Rino 530 feature only.

Restore Defaults—Returns options and data field choices to factory designations.



Compass Page Option Menu

To change data fields:

1. Use the **Thumb Stick** to highlight the desired data field and then press it In to display the list of data options.
2. Select the desired option from the list and press the **Thumb Stick** In. The list of data field choices and definitions may be found in the Appendix.

Using Sight 'N Go

Available for the Rino 530 only, this feature allows you visually locate an object and navigate to it.

To use Sight 'N Go to navigate:

1. Use the **Page** button to access the Compass Page and then use the **Thumb Stick** to access the **Option Menu.**
2. Use the **Thumb Stick** to highlight **Sight 'N Go** and press In. Note that the compass ring with pointer is in-line with the two sighting marks on the case.
3. Hold the Rino 530 at eye level and line up the two sighting marks on the case with a distant object. Press the **Thumb Stick** In to Lock Direction.
4. To navigate to your destination, select **Set Course** and press the **Thumb Stick** In. Begin traveling to your destination using the pointer as a guide.

   To view your destination as a waypoint, select **Project Waypoint** and press the **Thumb Stick** In. To re-sight the destination, press the **Thumb Stick** In when **Re-Sight** is highlighted.

Rino 530 held level
for Sight 'N Go

Calibrating the Compass

When you first use the Rino 530, the Electronic Compass must be calibrated outdoors and away from metal objects. The accuracy of the Electronic Compass is adversely affected if the unit is not held level or is held near items that generate magnetic fields, such as cars, large belt buckles, etc. Recalibration is recommended after significant environmental changes such as location changes, temperature fluctuations, switching from lithium-ion battery power to alkaline or NiCad. etc.

To calibrate the Electronic Compass:

1. Use the **Page** button to access the Compass Page.
2. Use the **Thumb Stick** to highlight the **Option Menu** button and press In.
3. Highlight the **Calibrate Compass** option and press the **Thumb Stick** In.
4. Press the **Thumb Stick** In to activate the **Start** button and then follow on-screen directions for holding and turning the unit. Hold the unit level when calibrating the compass.

Calibrating the compass: Hold the unit face up and level while slowly rotating it.

The unit displays a “Just Right,” “Too Fast,” or “Too Slow” message to help you to adjust your turning speed as needed.

The “Calibration Successful” message displays when finished. If a “Calibration Failed” message displays, repeat the process.

When you manually turn the Compass Off, it stays off until you manually turn it On again.

To turn the compass on and off:

- Press and hold the Zoom (**Z**) button. A message appears on the screen indicating that the compass has been turned on or off.

Altimeter Page

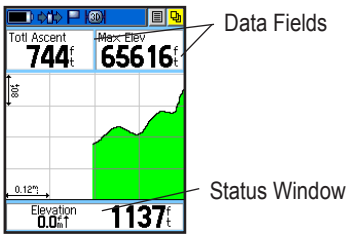
Available for the Rino 530 only, the Altimeter Page provides the current elevation, rate of ascent/descent, a profile of elevation changes over distance or time, or a profile of pressure changes over time. The Altimeter Page's Option Menu allows you to select from a variety of display options such as plotting over time, plotting over distance, displaying the zoom ranges of measurement, viewing elevation or pressure points, and resetting data displays. Two user selectable data fields allow you to display a variety of current and recorded pressure and elevation related data.

NOTE: *To achieve the greatest accuracy, the Altimeter should be calibrated. Refer to page 41 for information on calibrating the Altimeter.*

The Status Window is located at the bottom of the page and displays the current elevation and your current rate of ascent or descent when moving. It can also display the ambient or the barometric pressure.

The Plot or Profile Field is located in the center of the page and can be configured to display either elevation or ambient pressure or barometer plots as selected from the Altimeter Page Option Menu.

Data Fields at the top of the page are user selectable and display a variety of recorded or current data.



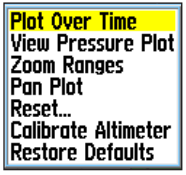
Four types of plots are possible:

- Elevation vs Time
- Elevation vs Distance
- Barometric Pressure* vs Time
- Ambient Pressure* vs Time

* Ambient Pressure is the actual pressure at your location. Barometric Pressure is the ambient pressure measured relative to sea level.

Altimeter Page Options

The Altimeter Page Option Menu allows you to select the type of information and how it is to be displayed. Altimeter Page Options include:



Altimeter Page Option Menu

Plot Over Time/Distance—Plots the changes in elevation over a length of time or over a distance. When Plot Over Distance is selected, Plot over Time is displayed in the Option Menu (and vice versa).

View Pressure/Elevation Plot—Displays a record of changes in barometric pressure or elevation for a set period of time.

Plot Ambient/Barometer—Changes between plotting ambient pressure versus time and barometric pressure versus time.

Zoom Ranges—Sets the zoom range for elevation, distance, or time.

Pan Plot—Allows you to scroll through the collected data plots to view elevation, time of day, and date a specific point was created

Reset…—Clears recorded data from the page to begin recording new data.

Calibrate Altimeter—Increases the accuracy of the altimeter. You must know your elevation or pressure to calibrate the altimeter. See page 41 for detailed instructions on calibration.

Restore Defaults—Returns the Altimeter Page to the original factory settings (defaults).

Viewing Pressure/Elevation Plots

When selecting the View Elevation Plot option, you can plot a profile of elevation changes that occur as you navigate over a set distance or period of time. When you select View Pressure Plot, you can view a record of changes in the ambient or the barometric pressure for a set period of time. When one option is active the other displays on the Altimeter Page Option Menu.

To view elevation or pressure plots:

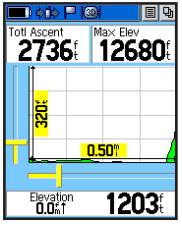
1. Use the **Thumb Stick** to highlight the desired option from the Option Menu and then press In to display the plot.
2. Adjust time and distance measurement as desired using the Elevation Plot Zoom Ranges feature explained below.
3. To clear the plot and start a new one, you must clear the Track Log.

Adjusting the Zoom Ranges

You can set the Zoom Ranges for elevation, distance, or time when you display the View Elevation Plot. You may change the ranges for the horizontal and vertical scales.

To adjust zoom ranges:

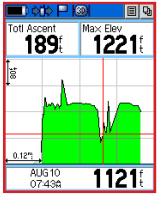
1. Select the type of plot you want to display and use the **Thumb Stick** to highlight **Zoom Ranges** from the Option Menu.
2. Press the **Thumb Stick** In to display the Zoom Ranges Page.
3. Move the **Thumb Stick** Up or Down to adjust the vertical distance and Left or Right to adjust either the time or distance. Press In to return to the Plot Page.



Zoom Range selection

Pan Plot

The Pan Plot option allows you to scroll through the stored elevation or pressure profile and to view a single point along the profile. When the pointer is stopped at a location along the profile, the display shows the elevation, time of day and date the point was created. The most recent data is displayed on the right side of the plot.



Pan Plot Option Page

To use the Pan Plot option:

1. Use the **Thumb Stick** to access the Option Menu.
2. Highlight the **View Points** option and press the **Thumb Stick** In to display the View Points Page.
3. Move the **Thumb Stick** Right or Left to scroll the profile past the pointer in the center of the page.

   As the profile moves past the pointer, the status window at the top of page changes to display the date, time, and altitude for the point indicated.

Resetting Data

You can reset the elevation data and the maximum elevation data by selecting the Reset option from the Altimeter Page Option Menu.

To reset the elevation data and max elevation fields:

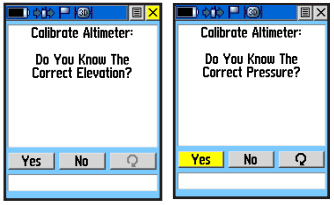
1. Use the **Thumb Stick** to highlight the **Reset** option from the page Option Menu and press it In to display the Reset page.
2. Use the **Thumb Stick** to highlight the elevation options on the page and then press it In to place a check mark in the box next to a selected item.
3. Move to the **Apply** button and press the **Thumb Stick** In to reset the data fields.

Calibrating the Altimeter

Because the Rino 530 relies on the barometric pressure to determine the elevation and the pressure at any given elevation can fluctuate, you can calibrate the altimeter to increase its accuracy. You must know the elevation (from a map point or other reliable data) or the pressure (calibrated to sea level - information you can obtain from the NOAA weather forecasts received on your Rino 530 or other reliable source) for your current location.

To manually calibrate the altimeter:

1. Use the **Thumb Stick** to access the Option Menu.
2. Highlight the **Calibrate Altimeter** option and press the **Thumb Stick** to display the Calibration Page.
3. At the message asking “Do You Know The Correct Elevation?” highlight the on-screen **Yes** button and press the **Thumb Stick** In to enter your elevation. When finished, highlight **OK** and press it In to return to the Altimeter Page. If you don’t know your current elevation, press **No** to move to the pressure calibration page.
4. At the message asking “Do You Know The Correct Pressure?” highlight the on-screen **Yes** button and press the **Thumb Stick** In to enter your pressure. When finished, highlight **OK** and press it In to return to the Altimeter Page.



Calibrate Altimeter Pages

Programming Data Fields

Two, user-selectable, data fields support this page and can be programmed to display the data options.

To program a data field:

1. Use the **Thumb Stick** to highlight the desired data field and then press it In to select desired data from the options list.

Main Menu Page

The Main Menu provides access to additional Rino 520/530 feature pages. The pages listed below provide enhancements to Rino 520/530 operation. Press the **Page** button to cycle to the Main Menu or select it from the **Main Page** button at the top of each main page.

Main Menu Page

Satellite Page—Provides a picture of the satellite signal tracking and tells you when the unit is ready to navigate.

Trip Computer Page—Provides navigation data.

Mark Waypoint Page—Allows you to mark a waypoint for your current location or a map pointer location.

Find Menu—Allows you to locate and Go To Waypoints, Favorite Locations, Cities, Interstate Exits, Points of Interest, Addresses, and Intersections.

Tracks Page—Provides access to the track log, saved tracks, and contact tracks.

Routes Page—Allows you to create and store routes.

Highway Page—Provides a graphic perspective of your current route.

Setup Menu—Controls the settings for many of teh units operating features.

Proximity Page—Activates an alarm for a defined radius around a specified waypoint.

Calendar—An outdoor calendar with data access and waypoint association.

Alarm Clock—Allows use of the Rino as an alarm clock.

Calculator—A standard or scientific calculator.

Stopwatch—A multi-featured stopwatch.

Sun & Moon—Sunrise/Sunset times, Moon phases, sun and moon positoin tables.

Hunt & Fish—A table of best hunting and fishing times for agiven location and date.

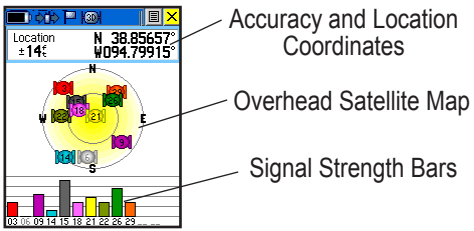
Games—A series of challenging games, some use GPS.

Satellite Page

The Satellite Page provides a picture of satellite signal tracking, tells you when the unit is ready for navigation, and shows your location coordinates.

To access the Satellite Page:

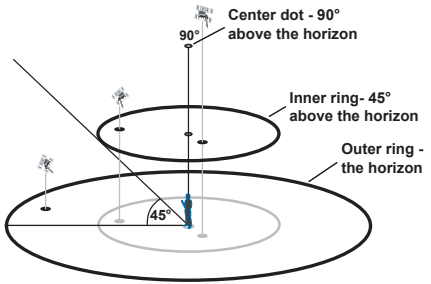
1. Press the **Page** button or the **Main Page** button to open the Main Menu.
2. In the Main Menu, scroll down and select **Satellite**.



Satellite Page

Sky View Graphic

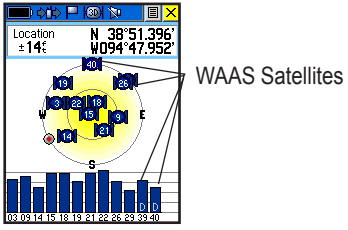
The Sky View graphic represents a view looking up at the sky from your current location showing satellites and their assigned numbers. The outer ring represents the horizon around you. The inner ring represents a view above you at a 45° angle from vertical. The center represents directly overhead. Signal Strength Bars for each satellite are shown below the Sky View. Satellites and their signals appear as hollow shapes until a signal is received and then they appear darkened in. The stronger the signal, the taller the signal bar.



WAAS

The Wide Area Augmentation System (WAAS) capability produces a more accurate position fix. When enabled (GPS set to **Normal** and WAAS set to **Enabled** through the System Setup Page, also the interface must be set to something other than RTCM mode), this feature searches for WAAS satellites near your location and then receives data for correcting differentials in the GPS satellite signals. WAAS satellite numbers begin at number 33 and are displayed on the Satellite Page. When differential correction data has been received for GPS satellites (numbers 32 or below), a **D** displays in the signal bar beneath the skyview. It is helpful to orient the unit antenna toward the WAAS satellite shown in the skyview. To learn more about the WAAS System, refer to the Federal Aviation Administration Web site (http://gps.faa.gov/).

Because the Rino 520/530 relies on satellite signals to provide you with navigational guidance, the unit's view of the sky determines how fast you achieve navigational status. GPS signals do not travel through heavy objects or people: For best results, keep the unit in clear view of the sky.



Satellite Page using WAAS

Satellite Strength

At least three satellite signals are needed to determine your location, otherwise the unit displays a "Poor Satellite Reception" message with four options:

Use with GPS Off—Select this option if you want to turn GPS off.

New Location—Select this option if you have moved more than 600 hundred miles (from where you last used the unit).

Restart Search—Select this option if today is not the date provided.

Continue Acquiring—Select this option if no other option applies. The unit will attempt to gather GPS signals.

Satellite Page Options

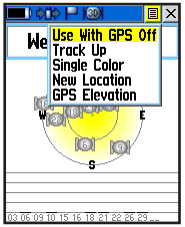
Use With GPS Off—Use this option when you are indoors, your view of the sky is obstructed, or you want to save battery power. You can enter data, create routes, etc., but cannot navigate in this mode.

Track Up/North Up—You can orient the satellite skyview by selecting 'Track Up' (your direction of travel) or 'North Up' (the satellite skyview oriented to the north).

Display Color Options—You have two color options for displaying the satellite array and signal strength bars, 'Single' or 'Multicolor.'

New Location—If you are more than 600 miles (from where you last used the unit), select the **New Location** and then the **Use Map** options to approximate your location. This gives the unit reference information and speeds satellite acquisition. Once a location fix has been made, this option is grayed out.

GPS Elevation—Allows you to view the elevation at your current location as calculated by the GPS receiver.



Satellite Page Option Menu

To select the Use With GPS Off option:

1. Use the **Thumb Stick** to highlight the **Option Menu** button at the top of the page and then press it In.
2. Use the **Thumb Stick** to highlight the **Use With GPS Off** option and then press it In.

   The Rino 520/530 stops tracking satellites and should not be used for navigation. However, the next time you turn the unit on, it returns to Normal GPS operation.

To select Track Up or North Up:

1. Use the **Thumb Stick** to highlight the **Option Menu** button at the top of the page and then press it In to display the Option Menu.
2. Highlight either the **Track Up** or **North Up** option (depending on which is currently in use), and press the **Thumb Stick** In to activate.

To enter a new location:

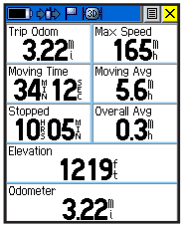
1. Use the **Thumb Stick** to highlight the **Option Menu** button at the top of the page and then press it In.
2. Highlight **New Location** and press the **Thumb Stick** In to display choices of **Auto** or **Use Map**.

   If you choose **Automatic** the Rino 520/530 determines your new location automatically.

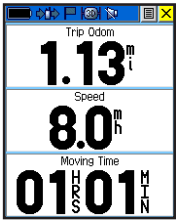
   If you choose **Use Map** a map page displays with instructions stating, “Point to your approximate location and press ENTER”. Use the **Thumb Stick** to move the map pointer to your location on the map and press the **Thumb Stick** In to enter the new location.

Trip Computer Page

The Trip Computer Page by default displays up to eight different types of navigation data. Choosing **Big Numbers** will display three large data fields.



Trip Computer Page, Small Numbers



Trip Computer Page, Big Numbers

Each data field is selectable and can contain one of many data information options. The default settings for these fields are shown in the illustration. The list of data field choices and definitions may be found in the "Appendix." When the data field title is selected, press the **Thumb Stick** In to select a new data field choice. By selecting the information options that you prefer and arranging them in a desired order on the page, you can customize the Trip Computer Page to meet your navigation needs.

Trip Computer Page Options

The Option Menu allows you to reset the Trip Computer data when you are ready to start a new trip, choose between Big or Small Numbers, and Restore Defaults.

Reset—Clears recorded data from the page to begin recording new data.

Big/Small Numbers—Changes the display from eight small data fields to three large data fields.

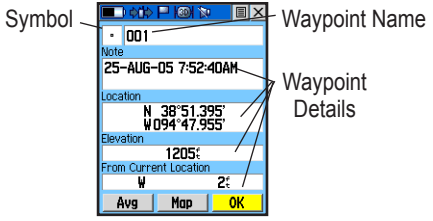
Restore Defaults—Returns the Trip Computer Page to the original factory settings (defaults).

Waypoints

There are numerous ways to create, edit, and use waypoints. Use the Shortcut Menu, "Mark" from the Main Menu, Panning from the Map page, the "Save" option from Map Point Review page, and the "Save as Waypoint" option on the Contact Review page. The Rino 520/530 can store up to 500 waypoints.

Mark Waypoint Page

The Mark Waypoint Page allows you to mark and record your current location as a waypoint. It appears with a graphic name field that displays the assigned number for that waypoint, a waypoint symbol, a date and time notation, location coordinates, approximate elevation, and direction and distance from your current location.



Mark Waypoint Page

To mark your current location and open the Mark Waypoint Page:

1. Press and hold the **Thumb Stick** In until the Shortcut Menu opens.
2. Highlight **Mark Waypoint** and press the **Thumb Stick** In to save your current location as a waypoint. You can also access this page by highlighting **Mark** on the Main Menu Page and pressing the **Thumb Stick** In.
3. If you do not want to save it as a new waypoint, highlight the **Close** button and press the **Thumb Stick** In to cancel.

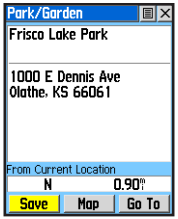
To use Mark Waypoint Page Options:

- To change the name of the waypoint, use the **Thumb Stick** to highlight the waypoint name field.
- To assign an identifying symbol to a waypoint, use the **Thumb Stick** to highlight the symbol block just to the left of the waypoint name.
- To view the waypoint on the map, highlight the **Map** button and press the **Thumb Stick** In.

Creating Waypoints

To create a waypoint for a map feature contained in the Find feature:

1. Access the Find Menu from the Main Menu and open a categories list to select the desired map item.



Saving a map feature as a waypoint

2. Press In and release the **Thumb Stick** to display the map item information page.
3. Highlight the **Save** button and press the **Thumb Stick** In to save the item as a waypoint.

To create a waypoint using the map panning arrow:

1. With the Pan Map feature active (refer to the Map Page section of this manual), move the panning arrow (map pointer) on the map to the location or map item you want to mark, then press the **Thumb Stick In** to display a prompt for a location or information page for a map item
2. A prompt asks you if you want to save the location as a Waypoint. Press **Yes** and the Waypoint Page displays, automatically assigning a number to the waypoint. Highlight the **Close** button and press the **Thumb Stick** In to exit the page.

To create a waypoint by entering coordinates:

1. Press In and hold the **Thumb Stick** to access the **Mark Waypoint** page. You can also use the Find Menu to display a previously saved waypoint.
2. Highlight the Location field and press in on the **Thumb Stick** to open the on-screen keyboard. Use the keyboard to change the location coordinates and press the **OK** button to exit.
3. You may also change the waypoint name, symbol, or add notes using the same process.

Averaging a Waypoint

Averaging a waypoint location can increase the accuracy of a waypoint at your current location by taking multiple position readings and averaging the results.

To average a waypoint:

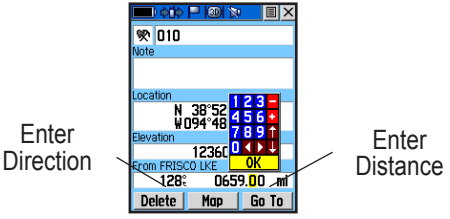
Select **Average Location** from the options list or the **Avg** button on the Mark Waypoint page when marking a new waypoint only. Press the **Thumb Stick** In to activate the Averaging Page. The longer you allow averaging to run the greater the location accuracy. Press **Save** when done.

Projecting a Waypoint

Projecting a waypoint from any map item (another waypoint, etc.) allows you to establish a new waypoint on a bearing and distance projected from that map item.

To project a waypoint:

1. Select a map item from the Find Menu.
2. Access the **Option Menu** using the on-screen button at the top of the Information Page. Highlight **Project Waypoint** and press In.
3. Highlight either the bearing or distance field, then press the **Thumb Stick** In to display the numerical keyboard. Enter the new bearing or distance, then highlight **OK** and press In to finish.



Project Waypoint Page

Editing a Waypoint

A waypoint or contact can be edited to add notes or change the map symbol, name, coordinates, or elevation. You can also delete a waypoint or contact.

To edit a waypoint:

Use the Find Menu to display the waypoint/contact or highlight it on the Map Page and press the **Thumb Stick** In.

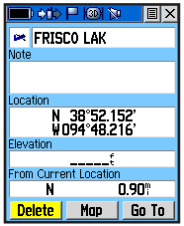
To delete a waypoint or contact:

1. Use the Find feature to display the point.
2. Highlight the **Delete** button and then press the **Thumb Stick** In. Confirm the deletion.

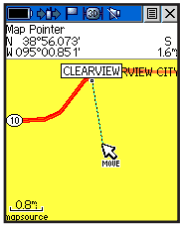
To move a waypoint by dragging it:

1. Use the Find Menu to display the Waypoint Page for the waypoint you want to move.
2. Highlight and press the **Map** on-screen button to display the waypoint on the map.
3. With the waypoint highlighted by the panning arrow, press In and release the **Thumb Stick**. The word “Move” displays beneath the panning arrow.
4. Use the panning arrow to drag the waypoint to the new location and then press the **Thumb Stick** In to place it.

   Press the **Page/Quit** button before pressing the **Thumb Stick** to cancel moving the waypoint and return to the Main Pages.



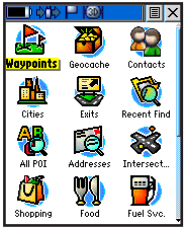
Deleting a Waypoint



Moving a Waypoint

Find

The Find Menu allows you to Find stored locations (waypoints and contacts) and map items (cities, exits, etc.). They can be found by name or by those nearest to your current location. If you are using Rino compatible Garmin MapSource detailed mapping data, the list of Find locations is expanded to include categories for Points of Interest, Street Addresses, and Intersections.



Find Menu

To access the Find Menu:

1. Use the **Thumb Stick** to highlight the **Main Pages** button and then press it In to display the list of Main pages.
2. Highlight **Main Menu** and press In to display the Main Menu.
3. From the **Main Menu**, highlight the **Find** icon and press the **Thumb Stick** in to display the Find Menu.

Categories can be listed in several different ways: By Name, Nearest Current Location, and Nearest a Referenced Map location. The By Name list contains every item in the map database for the selected category, while the Nearest lists contains only those items that are near to your Current Location or a referenced location. The distance defined by “Nearest” varies because it is determined by the density of items near you in the selected category. There are more restaurants near you than cites for example.

These pages are structured with a set of sub-menus and location information pages that guide you through the process of Finding locations.

Finding a Waypoint

Waypoints that you have created and stored in the Rino 520/530 can be found by selecting the **Waypoint** option from the Find Menu. You can Find a waypoint from the list of waypoints using the Nearest current location, By Name (all waypoints in alphabetical order), or Nearest referenced location options as explained on the previous page. When selected from the list, the waypoint displays on the Waypoint Information Page.

The Waypoint Information Page displays the waypoint name or number, a map symbol, the location in lat/lon, elevation, distance, bearing, and three on-screen buttons for Go To, Map, and Delete functions.

To Find a waypoint by nearest:

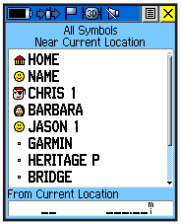
1. Use the Thumb Stick to select **Waypoint** from the Find Menu. Press the **Thumb Stick** In to display the Waypoints List. The List is displayed as "All Symbols Near Current Location."
2. Use the **Thumb Stick** to select the desired waypoint from the list and then press the **Thumb Stick** In to display the Information Page for that waypoint.
3. Select **Go To** to create a direct line of travel to the waypoint. Select **Map** to view the waypoint location on the map or select **Delete** to delete the waypoint.
4. Press the **Option Menu** button to access additional features. You can select: Send Location (to other Rino users), Project Waypoint, Set Proximity (alarm), Add to Route, View Sun & Moon (reports for that waypoint), View Hunt & Fish (reports for that waypoint), or Reposition Here.

To Find a waypoint by selecting a symbol:

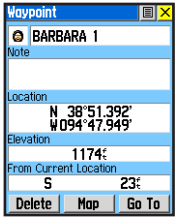
1. With the Waypoints List displayed, use the Options Menu to view waypoints using the same type symbol by highlighting "Select Symbol" and pressing In on the **Thumb Stick**.
2. A "Used Symbol" window appears with a list of all the symbol types assigned to waypoints.

To Find a waypoint by name:

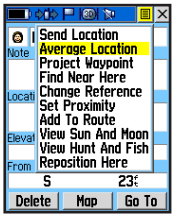
1. Use the **Thumb Stick** to select **Waypoint** from the Find Menu. Press the **Thumb Stick** In to display the Waypoints List.



Waypoints List



Waypoint Information Page



Information Page Options Menu

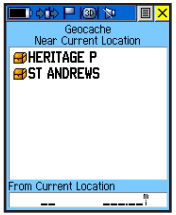
2. Use the **Thumb Stick** to enter the name of the waypoint that you would like to Find.
3. Select **OK** when you are finished entering the name. The waypoint list opens with the name closest to the name you entered on the top.
4. Select the desired waypoint from the list and then press the **Thumb Stick** In to display the Information Page for that waypoint.
5. With the Waypoint Information Page displayed, select **Go To** to create a direct line of travel to the waypoint. Select **Map** to view the waypoint location on the map or select **Delete** to delete the waypoint.
6. Press the **Option Menu** button to access additional features.

Finding a Geocache

The Find Geocache feature allows you to view and navigate to geocache locations you created using your Rino or downloaded from your computer. For more information about geocaching, visit the Garmin web site *www.garmin.com/outdoor/geocaching/*.

To Find a geocache:

1. From the Find Menu, select the Geocache icon and press the **Thumb Stick** In.
2. If you have not established a geocache list, you are presented with the Geocache setup page. Here you are asked to select symbols for geocache locations. Standard symbols for geocaching are presented along with a calendar entry option.
3. Change the symbols if desired and select “Yes” or “No” for calendar entry, then use the **Close** button.



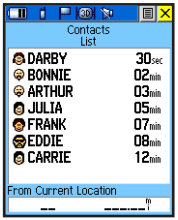
Geocache List

Finding a Contact

Contacts that you have received in the Rino 520/530 can be found by selecting the Contacts icon from the Find Menu.

To Find a contact:

1. From the Find Menu, highlight **Contacts** and press the **Thumb Stick** In.



Contact List

2. From the Contacts List, select the desired contact and press the **Thumb Stick** In.
3. With the Contact Information Page displayed, select **Go To** to create a direct line of travel to the contact. Select **Map** to view the contact’s location on the map or select **Delete** to delete the contact.

   If the contact did not have a GPS location on the last transmission, a question (?) mark appears in the location field.
4. Press the **Option Menu** button to access additional features.

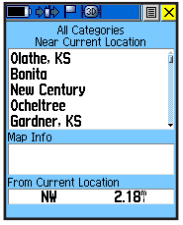
Finding a City

Cities can be found by selecting the **Cities** option of the Find Menu, selecting the city from the list of **Nearest** or **By Name**, and then displaying the City Information Page.

The City Information for the selected city displays, including the city name, the size by population, and distance from your location. You can view it on the map, or create a Go To direct route to the city from your current location or from a location defined by the Panning Arrow (Map Pointer). You can also save the city as a waypoint or add it to an existing route.

To Find a city:

1. From the Find Menu use the **Thumb Stick** to select the **Cities** option, then press it In to display the Find **Nearest** or Find **By Name** prompt. Selecting **By Name** displays the keyboard as an alternative to scrolling through the list of nearest cities.



Find Nearest Cities List

2. If using Find **By Name**, begin spelling the name of the city by using the keyboard. When you have entered enough characters to begin to define the name, a match list displays.

   If you are using Find **By Nearest**, scroll through the list to Find the city you want. Use the **Thumb Stick** to select the desired city from the list and then press it In to display the Information Page for that city.

   If you use **Select Map** (which is displayed only when you have more than one type of detailed data map downloaded from MapSource to your Rino), you have the option to choose which map you want data from.

   If using **Change Reference**, follow instructions when the map displays and select a location to base the city search from.

3. With the Information Page displayed, you can select **Go To**, **Map**, or **Save** options.
4. Press the **Option Menu** button to access additional features.